

# DAKOTA MICRO

## User Manual

OverView® 1080P HD Digital 7" Wireless Waterproof Monitor and 120° Camera



DM Part Number(s)	Description(s)
DMOV-DWH7C	This OverView® kit includes one (1) HD digital 7" wireless waterproof monitor, one (1) HD digital 120° wireless cameras, and accessories.

**Always read the manual prior to operating this equipment. Also, please follow all safety signs and precautions.**

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## Included Components

Description	Picture
OverView® 1080P HD Digital Wireless 7 in Waterproof Monitor	
Locking 12V Auxiliary Power	
OverView® 1080P HD Digital Wireless Camera PN: DMOV-DWHC	
Locking Hardwire Power	

## Optional Wireless Kit Components

Description	Picture
Dakota Micro® Locking AC 3A Electrical Outlet Power PN: DM-PA3	
OverView® 1080P HD Digital Wireless Camera PN: DMOV-DWHC	

## Standard Features

### Camera

- Minimum focal distance of 5"
- Built-in, high quality CCD camera with high performance infrared (IR) illuminator modules
- IR has effective range of 45'+ in complete darkness
- Built-in CDS light-source sensor automatically turns the IR's on/off by detecting the light intensity of the environment
- 2.8mm Camera lens provides 110-degree field of view

### Monitor

- 7" LED Backlit Monitor
- Capable of displaying 4 digital wireless cameras
- Capable of auto scan between Cameras 1, 2, 3, & 4
- View cameras one at a time, side by side, or quad view
- Manual image switching modes

## Power

### Supplying power to your OverView® wireless monitor with provided 12v power adapter

1. Attach the power input connector on monitor to your included 12v cigarette lighter power adapter.
2. Plug cigarette lighter adapter into 12v power source.

### Supplying power to your OverView® wireless cameras with provided hardwire power adapter

1. Attach the power input connector on camera to your included hardwire power plug.
2. Attach t-tap power clips as follows:

a. Hardwire power adapters include two sets of wire tap and female disconnects for both power (red) and ground (blue)	
b. The wire tap clamps onto the wire you're connecting to; the female disconnect crimps onto the Hardwire power adapter: RED for power, BLUE for ground	
c. The female disconnect slides firmly into the end of the wire tap, making a secure connection	

3. **WARNING:** Hardwire MUST be attached to a MAX 7.5A fused circuit or damage will occur. Warranty void if instructions are not followed.

### Supplying power to your OverView® wireless kit via AC power

1. If you would like to provide power to your OverView® wireless kit via AC power, you will need to purchase the accessory AC power adapters from your local Dakota Micro, Inc. Dealer, part number: DM-PA3.
2. **IMPORTANT:** Each unit will need an AC power adapter.

## Event Trigger Wire Operations

### Event Trigger Wire Color Guide

1. Camera 1 – Brown
2. Camera 2 – Yellow
3. Camera 3 – White
4. Camera 4 – Blue

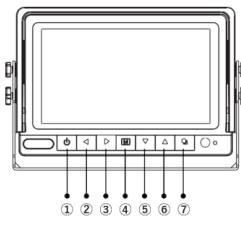
### Event Trigger Wires Explained

Event trigger wires can be attached to any 12v positive event. This will cause the monitor to change to that camera, regardless of the state of the monitor (i.e. ON/OFF or channel selection). The most recent event will be the primary display. So, if two (2) video channels (AV1 & AV2) are attached to an event output, the event that happens last will change the monitor to its respective camera view.

The wires can be attached to any positive output 10.5v to 16.9v switch or supply to cause the monitor to automatically switch the unit to its respective channel camera. **Example:** If you were to attach the AV1 wire to a positive output from an unloading auger on a combine, the monitor would switch from channel 2 to channel 1 when the auger is extended. The event circuit should be neutral in its normal state and change to HIGH (+12v) when the event is considered to be active.

## Monitor Operation

1. Power
2. Left (Volume -/Menu)
3. Right (Volume +/Menu)
4. Menu/Esc
5. Down (CH switch)
6. Up (CH switch)
7. OK/Camera Toggle



### Setting Up/Pairing Your Camera

1. Plug monitor into chosen power source. With no cameras connected, the monitor will display “No Signal” message.
2. Have monitor show one camera image at a time **IMPORTANT: Camera will not pair in split screen or SCAN mode.**
3. Plug 1 camera into the chosen power source.
4. Press “MENU” button to enable menu selection. **IMPORTANT: Menu NOT accessible in split screen mode.**
5. Use Left/Right arrows to select the “Pair” icon (pictured below)
6. Press “OK” (7 on image above) button to select.
7. Once selected, your monitor will display the message “Please press pair key on Tx side 20”, which means your monitor will scan for available camera signals.

### To Pair Additional Cameras

1. Change the monitor to another video input and follow the above instructions for each additional camera.

**DISCLAIMER:** If camera signal cannot be found, unplug camera for 10 seconds and try again.

## Additional Menu Options

Icon	Screen Image	Functionality
		<p><b>Pair:</b> Establishes the connection between the monitor and camera.</p> <p><b>IMPORTANT: To pair, your monitor should be powered but your cameras SHOULD NOT. See instructions above (IX. SETTING UP/ PAIRING YOUR CAMERAS).</b></p> <p>When pairing the cameras, be sure to pair one camera at a time.</p> <p>The monitor will not be able to pair the camera if the monitor is in split screen.</p>
		<p><b>Picture Setting:</b> Allows adjustment of brightness, contrast, color (adjusts monitor, so this setting affects both cameras), and volume.</p> <p>Brightness: 0-9 (Press left/right arrows to adjust)</p> <p>Contrast: 0-9 (Press left/right arrows to adjust)</p> <p>Color: 0-9 (Press left/right arrows to adjust)</p>
		<p><b>Normal/Mirror image setting:</b> Allows users to adjust viewing of cameras. 4 modes available</p>
		<p><b>Multiscreen mode:</b></p> <p>Can choose what layout you would prefer for split, triple, or quad view.</p>
		<p><b>System Settings:</b></p> <p>Adjust the date and time</p> <p>Select to turn off 2, 3, or 4 camera view screens</p> <p>Change camera PAL/NTSC</p> <p>Change monitor day/night mode.</p>
		<p><b>Autorotation:</b></p> <p>Turn the channels on/off that would be included in the auto rotation.</p> <p>Length in seconds between each change.</p>
		<p><b>Reverse Guidelines:</b></p> <p>Turn the guideline on/off or adjust it right and left on screen</p>
	N/A	<b>Not Available in this model</b>
	N/A	<b>Not Available in this model</b>

\*\*All product specifications and warranty details are available at [www.dakotamicro.com](http://www.dakotamicro.com)\*\*